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10/575,964	05/02/2007	Michael Baldischweiler	BALD3012/JJC/PMB	5100
23364 BACON & THO	7590 12/07/201 OMAS, PLLC	EXAMINER		
625 SLATERS	LANE	ZELASKIEWICZ, CHRYSTINA E		
FOURTH FLO ALEXANDRIA	or A, VA 22314-1176		ART UNIT	PAPER NUMBER
			3621	
			MAIL DATE	DELIVERY MODE
		12/07/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applicati	on No.	Applicant(s)				
		10/575,9	64	BALDISCHWEILER ET AL.				
		Examine	•	Art Unit				
		CHRYST	NA ZELASKIEWICZ	3621				
 Period for	The MAILING DATE of this communicated Reply	ion appears on th	e cover sheet with the c	orrespondence ad	ldress			
WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAIL sions of time may be available under the provisions of 37 kIX (6) MONTHS from the mailing date of this communicate operiod for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, to ply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THE CFR 1.136(a). In no exation.  y period will apply and word statute, cause the apply and word statute.	HIS COMMUNICATION ent, however, may a reply be tin ill expire SIX (6) MONTHS from slication to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1) 🖂 F	Responsive to communication(s) filed o	n 12 October 201	0.					
•		☐ This action is r						
3)□ \$	Since this application is in condition for	allowance except	for formal matters, pro	secution as to the	e merits is			
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims							
4) Claim(s) <u>1-7 and 9-25</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.								
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>1-7 and 9-25</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction	and/or election r	equirement.					
Applicatio								
	he specification is objected to by the Ex	/aminer						
•			□ objected to by the I	=xaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the				FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ur	nder 35 U.S.C. § 119							
a)[	Acknowledgment is made of a claim for f  All b) Some * c) None of:			)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
				<b>~</b> .				
Attachment(	s)							
1) Notice	of References Cited (PTO-892)		4) Interview Summary					
	of Draftsperson's Patent Drawing Review (PTO-sation Disclosure Statement(s) (PTO/SB/08)	948)	Paper No(s)/Mail Da 5) Notice of Informal F					
Paper No(s)/Mail Date 6) Other:								

Art Unit: 3621 20101203

### **DETAILED ACTION**

### **Acknowledgements**

- 1. This action is in reply to the Amendment filed on October 12, 2010.
- 2. Claim 8 was cancelled.
- 3. Claims 1-7 and 9-25 are pending.
- 4. Claims 1-7 and 9-25 have been examined.
- 5. This Office Action is given Paper No. 20101203 for references purposes only.

# Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-4, 6-7, 10, 14-22, and 24-25 are rejected under 35 U.S.C. §103(a) as being unpatentable over Hurta et al. (US 5,602,919) in view of Moritsu et al. (US 2002/0049670).

### Claims 1, 17

8. Hurta discloses the following limitations:

Art Unit: 3621 20101203

at a first time (t1) (phase A, see C8 L1-27, figure 5), receiving a data a. record (transfer data representing toll amount, see C5 L14-20) assigned to the service (paying tolls, see abstract) from an owner's personal electronic payment device (user's smartcard 66, see abstract, C2 L59 - C3 L2), directly or indirectly by a personal electronic device of the owner;

- wherein the electronic intermediate carrier (transponder 14, see abstract, b. C2 L59 – C3 L2) is formed as a transferable unit physically separate (see figures 1-2) from the owner's personal electronic payment device or personal electronic device.
- 9. Hurta does not disclose the following limitations:
  - At a second time... correctly; C.
  - d. Deleting... transactions.
- 10. Moritsu teaches the following limitations:
  - at a second time (t2) which is later than the first time (t1), checking the e. data record (payment intention, see [0062]) or data derived therefrom in the electronic intermediate carrier (IC card, see [0062]) by a receiving device of the payee as to whether the service was rendered correctly (payment intention successfully sent, see [0062]);
  - f. deleting (deleted, see [0062]) or invalidating the data record (payment intention, see [0062]) completely or with regard to the data derived therefrom in the electronic intermediate carrier (IC card, see [0062]) if the service was rendered correctly, so as to prevent the data record from being used several

Art Unit: 3621 20101203

times for payment transactions (prevents beneficiary system from making copies, see [0062]).

Page 4

11. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the smartcard-based transponder system of Hurta with the deleting of a data record of Moritsu because 1) a need exists for a smartcard-based transponder that can accept money from a smartcard (Hurta C2 L1-33); and 2) a need exists for an electronic payment system that reduces the burden on the payer and recipient (Moritsu [0009-0010]). Checking the data record will verify whether service was rendered correctly (i.e. a valid data exchange has occurred) (see Hurta C3 L3-19, C6 L3-51); and deleting the record will ensure it is not used again for payment purposes (Moritsu [0062]).

### Claim 2

- 12. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta discloses the following limitations:
  - g. transmitting the data record (transfer data for toll, see C5 L14-20) or data derived therefrom from the electronic intermediate carrier (transponder, see C6 L3-51) to the payee (interrogator of toll plaza, see C6 L3-51).

## Claim 3

13. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta discloses the following limitations:

Art Unit: 3621 20101203

h. securing the data record cryptographically (encrypted MAC, see C6 L28-

34).

Claim 4

14. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

i. the data record depends on at least one of individual data of the electronic

intermediate carrier (transponder identity or certificate, see C6 L3-51) and a

consecutive character string.

Claim 6

15. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

j. the data record depends on personal data (PIN, see C8 L5-13) of the

owner of the personal electronic payment device.

Claim 7

16. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

k. the data record represents at least one amount of money or at least one

unit of value (payment method, see C6 L3-19).

Art Unit: 3621 20101203

Page 6

Claim 10

17. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

I. the data transmission is effected contactlessly (wireless fashion, see C3

L20-38) at least one of the first time (t1) and the second time (t2).

Claim 14

18. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

m. visualizing information (show amount last debited, see C4 L56-67) in

connection with the data record on the intermediate carrier.

Claim 15

19. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

n. Fastening the intermediate carrier (transponder, see C3 L39-52)

detachably to an object (vehicle, see C3 L39-52).

Claim 16

20. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

Art Unit: 3621 20101203

o. transmitting from the intermediate carrier to the personal electronic

Page 7

payment device data on the functionality required for transmitting a data record

from the personal electronic payment device (smartcard, see C5 L14 - C6 L51) or

a personal device to the intermediate carrier (transponder, see C5 L14 - C6 L51).

Claim 18

21. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

p. The electronic intermediate carrier is formed as a transponder

(transponder, see C3 L39-52).

Claim 19

22. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

q. the electronic intermediate carrier (transponder, see C3 L39-52) is set up

for repeated transmission of data records (paying tolls on road, see abstract, C3

L1-20).

Claim 20

23. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

Art Unit: 3621 20101203

r. the functionality required for transmitting a data record (toll amount, see

Page 8

C4 L56 - C5 L13) from the personal means of payment (smartcard, see C4 L56

- C5 L13) or a personal device to the intermediate carrier (transponder, see C4

L56 – C5 L13) is stored as an application (application, see C4 L56 – C5 L13) on

the electronic intermediate carrier.

Claim 21

24. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

s. the electronic intermediate carrier (transponder, see C3 L39-52) has a

display device (LCD 74, see C4 L56-67) for visualizing information in connection

with a data record (amount of money last debited, see C4 L56-67).

Claim 22

25. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

t. the personal device (smartcard, see C4 L56-67) is an intelligent device

having a reading device for near field communication with a transponder

(transponder, see figure 4, C4 L56-67).

Art Unit: 3621 20101203

26. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta discloses the following limitations:

u. the personal electronic payment device is formed as a chip card (smartcard, see C4 L56-67), or as a security module of a mobile telephone.

Claim 25

27. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta discloses the following limitations:

v. the receiving device (interrogator, see C3 L20-38) has a checking device (antenna, see C4 L43-55) as well as at least one additional component (central office computer, see C3 L20-38) which provides reference information (accounting information, see C3 L20-38) for checking a data record.

28. Claims 5 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hurta, in view of Moritsu, and further in view of Official Notice.

- 29. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta discloses the following limitations:
  - w. data record with an encrypted MAC, using an encryption method such as DES (see C6 L3-51).
- 30. Hurta in view of Moritsu does not disclose the following limitations:

Art Unit: 3621 20101203

x. encrypting the data record with a public key of the payee.

31. Examiner takes **Official Notice** that it is old and well known in the encryption arts

that data may be encrypted by a public key.

32. It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the smartcard-based transponder system of Hurta, in view of

Moritsu, to include encrypting the data record with a public key of the payee because

Hurta already teaches encrypting the data record for security purposes (see Hurata C6

L3-51). Using the payee's public key will ensure proper authorization between the

transponder and interrogator (see Hurta C6 L3-51).

Claim 23

33. Hurta in view of Moritsu discloses all the limitations above. Furthermore, Hurta

discloses the following limitations:

y. the intelligent device is a smartcard (smartcard, see C4 L56-67).

34. Hurta in view of Moritsu does not disclose the following limitations:

z. the personal electronic payment device is a mobile telephone.

35. Examiner takes **Official Notice** that it is old and well known in the computer arts

that a smartcard can be utilized with a mobile telephone.

36. It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the smartcard-based transponder system of Hurta, in view of

Moritsu, to include the personal electronic payment device as a mobile telephone

Art Unit: 3621 20101203

Page 11

because a mobile telephone can perform similar functions as the smartcard, such as

read, write, and store information (see Hurta C1 L60-67).

37. Claims 9 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Hurta, in view of Moritsu, and further in view of Tuttle (US 6,013,949).

Claim 9

38. Hurta in view of Moritsu discloses all the limitations above. Hurta in view of

Moritsu does not disclose the following limitations:

aa. the electronic intermediate carrier... second time (t2).

39. Furthermore, Tuttle teaches the following limitations:

bb. the electronic intermediate carrier (RFID stamp, see C2 L28-54) is not in

the possession of the owner (mailer of stamp, inherent) of the personal electronic

payment device at the second time (t2) (item arrives at shipment destination, see

C6 L20-49).

40. It would have been obvious to one of ordinary skill in the art at the time of the

invention to combine the smartcard-based transponder system of Hurta, in view of

Moritsu, with the carrier not in possession of the owner of the payment device of Tuttle

because 1) a need exists for a smartcard-based transponder that can accept money

from a smartcard (Hurta C2 L1-33); 2) a need exists for an electronic payment system

that reduces the burden on the payer and recipient (Moritsu [0009-0010]); and 3) a need

exists for RFID tags that are efficient in operation and do not require large amounts of

Art Unit: 3621 20101203

Page 12

power to operate (Tuttle C2 L1-5). Having the intermediate carrier (e.g. postage stamp)

not in the owner's possession allows for easily tracking of a package (Tuttle C1 L29-57).

Claim 11

41. Hurta in view of Moritsu discloses all the limitations above. Hurta in view of

Moritsu does not disclose the following limitations:

cc. Using the cashless... mail.

42. Furthermore, Tuttle teaches the following limitations:

dd. using the cashless payment transaction for paying postage for mail

(postage stamps and mailing labels, see C2 L18-28).

43. It would have been obvious to one of ordinary skill in the art at the time of the

invention to combine the smartcard-based transponder system of Hurta, in view of

Moritsu, with the cashless payment transaction for paying postage of Tuttle because 1)

a need exists for a smartcard-based transponder that can accept money from a

smartcard (Hurta C2 L1-33); 2) a need exists for an electronic payment system that

reduces the burden on the payer and recipient (Moritsu [0009-0010]); and 3) a need

exists for RFID tags that are efficient in operation and do not require large amounts of

power to operate (Tuttle C2 L1-5). Using the transaction for payment of mail allows for

easily tracking of a package (Tuttle C1 L29-57).

Art Unit: 3621 20101203

44. Hurta, in view of Moritsu and Tuttle, discloses all the limitations above. Furthermore, Tuttle teaches the following limitations:

- ee. the intermediate carrier (RFID stamp, see C2 L28-54) is fastened detachably to mail (mail, see C2 L28-48).
- 45. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the smartcard-based transponder system of Hurta, in view of Moritsu, with the intermediate carrier fastened to mail of Tuttle because 1) a need exists for a smartcard-based transponder that can accept money from a smartcard (Hurta C2 L1-33); 2) a need exists for an electronic payment system that reduces the burden on the payer and recipient (Moritsu [0009-0010]); and 3) a need exists for RFID tags that are efficient in operation and do not require large amounts of power to operate (Tuttle C2 L1-5). Fastening the intermediate carrier to the mail allows for easily tracking of a package (Tuttle C1 L29-57).

- 46. Hurta, in view of Moritsu and Tuttle, discloses all the limitations above. Furthermore, Tuttle teaches the following limitations:
  - ff. information on at least one of the time and place of the delivery (destination address, see C2 L28-48) of the mail is stored in the electronic intermediate carrier.
- 47. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the smartcard-based transponder system of Hurta, in view of

Art Unit: 3621

Moritsu, with the time and place of delivery stored in the intermediate carrier of Tuttle because 1) a need exists for a smartcard-based transponder that can accept money from a smartcard (Hurta C2 L1-33); 2) a need exists for an electronic payment system that reduces the burden on the payer and recipient (Moritsu [0009-0010]); and 3) a need exists for RFID tags that are efficient in operation and do not require large amounts of power to operate (Tuttle C2 L1-5). Storing time and delivery information on the intermediate carrier allows for easily tracking of a package (Tuttle C1 L29-57).

Page 14

20101203

## **Response to Arguments**

48. Applicant argues that Hurta does not disclose "receiving...rendered correctly" or "deleting or invalidating the data record" (Amendment p 13-14). This argument is moot in light of the new art above.

### Claim Interpretation

- 49. Examiner finds that because the examined claims recite neither "step for" nor "means for", the examined claims fail Prong (A) as set forth in MPEP § 2181 I. Because all examined claims fail Prong (A), Examiner concludes that all examined claims do not invoke 35 U.S.C. 112, 6<sup>th</sup> paragraph. See also *Ex parte Miyazaki*, 89 USPQ2d 1207, 1215-16 (B.P.A.I. 2008) (precedential).
  - gg. Should Applicant amend the claims to recite "means for", Applicant is respectfully reminded that the specification must have proper antecedent basis

Application/Control Number: 10/575,964 Page 15
Art Unit: 3621 20101203

for the claimed subject matter. See 37 C.F.R. § 1.75(d)(1), MPEP § 608.01(o), and MPEP § 2181 IV.

- 50. After careful review of the original specification and unless expressly noted otherwise by Examiner, Examiner concludes that Applicant is not his own lexicographer. See MPEP § 2111.01 IV.
- 51. Examiner hereby adopts the following definitions under the broadest reasonable interpretation standard. In accordance with *In re Morris*, 127 F.3d 1048, 1056, 44 USPQ2d 1023, 1029 (Fed. Cir. 1997), Examiner points to these other sources to support her interpretation of the claims.<sup>1</sup> Additionally, these definitions are only a guide to claim terminology since claim terms must be interpreted in context of the surrounding claim language. Finally, the following list is not intended to be exhaustive in any way:
  - hh. *device* "A generic term for a computer subsystem." <u>Computer Dictionary</u>, 3rd Edition, Microsoft Press, Redmond, WA, 1997;
  - ii. *element* "n. 1. Any stand-alone item within a broader context. For example, a data element is an item of data with the characteristics or properties of a larger set." <u>Computer Dictionary</u>, 5<sup>th</sup> Edition, Microsoft Press, Redmond, WA, 2002;
  - jj. **subsystem** "(3) (software) A secondary or subordinate system with a larger system." <u>IEEE 100 The Authoritative Dictionary of IEEE Standards Terms</u>, 7<sup>th</sup> Edition, IEEE, Inc., New York, NY, Dec. 2000;

<sup>1</sup> While most definitions are cited because these terms are found in the claims, Examiner may have provided additional definition(s) to help interpret words, phrases, or concepts found in the definitions themselves or in the prior art.

Art Unit: 3621 20101203

Page 16

kk. **system** "n. Any collection of component elements that work together to perform a task. Examples are a hardware system consisting of a microprocessor, its allied chips and circuitry, input and output devices, and peripheral devices; an operating system consisting of a set of programs and data files; or a database management system used to process specific kinds of information." <u>Computer</u>

Dictionary, 5<sup>th</sup> Edition, Microsoft Press, Redmond, WA, 2002; and

II. *unit* "(3) A software component that is not subdivided into other components." <u>IEEE Standard Computer Dictionary</u>, The Institute of Electrical and Electronics Engineers, New York, NY, 1990.

- 52. Note, in this case claim 1 is a method claim that recites the limitation "receiving a data record assigned to the service from an owner's personal electronic payment device." Because the limitation receives data from an electronic device, Examiner interprets claims 1-7 and 9-16 as tied to a machine.
- 53. Note, in this case claim 17 is a system claim that recites the limitation "a personal electronic payment device." Because the system claim includes an electronic device, Examiner interprets claims 17-25 as requiring hardware, and not directed to software alone.

#### Conclusion

54. Applicant's amendment filed on October 12, 2010 necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE** 

Art Unit: 3621 20101203

Page 17

**FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

- 55. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 56. Because this application is now final, Applicant is reminded of the USPTO's after final practice as discussed in MPEP §714.12 and §714.13 and that entry of amendments after final is *not* a matter of right. "The refusal of an examiner to enter an amendment after final rejection of claims is a matter of discretion." *In re Berger*, 279 F.3d 975, 984, 61 USPQ2d 1523, 1529 (Fed. Cir. 2002) (citations omitted). Furthermore, suggestions or examples of claim language provided by Examiner are just that—suggestions or examples—and do not constitute a formal requirement mandated by Examiner. Unless stated otherwise by an express indication that a claim is "allowed," exemplary claim language provided by Examiner to overcome a particular rejection or to change claim interpretation has *not been addressed* with respect to other aspects of patentability (*e.g.* §101 patentable subject matter, §112, 1<sup>st</sup> paragraph written description and enablement, §112, 2<sup>nd</sup> paragraph indefiniteness, and §102 and §103,

determination as noted above.

Art Unit: 3621 20101203

Page 18

prior art). Therefore, any claim amendment submitted under 37 C.F.R. §1.116 that incorporates an Examiner suggestion or example or simply changes claim interpretation will nevertheless require further consideration and/or search and a patentability

- 57. Applicant is respectfully reminded that any suggestions or examples of claim language provided by Examiner are just that—suggestions or examples—and do not constitute a formal requirement mandated by Examiner. To be especially clear, any suggestion or example provided in this Office Action (or in any future office action) does not constitute a formal requirement mandated by Examiner.
  - mm. Should Applicant decide to amend the claims, Applicant is also reminded that—like always—no new matter is allowed. Examiner therefore leaves it up to Applicant to choose the precise claim language of the amendment in order to ensure that the amended language complies with 35 U.S.C. § 112 1st paragraph.
  - nn. Independent of the requirements under 35 U.S.C. § 112 1st paragraph, Applicant is also respectfully reminded that when amending a particular claim, all claim terms must have clear support or antecedent basis in the specification. See 37 C.F.R. § 1.75(d)(1) and MPEP § 608.01(o). Should Applicant amend the claims such that the claim language *no longer* has clear support or antecedent basis in the specification, an objection to the specification may result. Therefore, in these situations where the amended claim language does not have clear support or antecedent basis in the specification and to prevent a subsequent

Art Unit: 3621 20101203

Page 19

'Objection to the Specification' in the next office action, Applicant is encouraged to either (1) re-evaluate the amendment and change the claim language so the claims *do* have clear support or antecedent basis or, (2) amend the specification to ensure that the claim language does have clear support or antecedent basis. See again MPEP § 608.01(o) (¶3). Should Applicant choose to amend the specification, Applicant is reminded that—like always—no new matter in the specification is allowed. See 35 U.S.C. § 132(a). If Applicant has any questions on this matter, Applicant is encouraged to contact Examiner via the telephone number listed below.

- 58. Any inquiry of a general nature or relating to the status of this application or concerning this communication or earlier communications from Examiner should be directed to Chrystina Zelaskiewicz whose telephone number is 571.270.3940. Examiner can normally be reached on Monday-Friday, 9:30am-5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Andrew Fischer can be reached at 571.272.6779.
- 59. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For information PAIR about the more system, see http://portal.uspto.gov/external/portal/pair <http://pair-direct.uspto.gov>. Should you

Art Unit: 3621 20101203

have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866.217.9197 (toll-free).

/Chrystina Zelaskiewicz/ Examiner, Art Unit 3621 December 3, 2010

/ANDREW J. FISCHER/ Supervisory Patent Examiner, Art Unit 3621